

Task Description	Engaged SMBNEP Entities		Partners	Short-term Outputs	Long-term Outcomes 5 – 20 Years	Grants and Funding Sources
Kelp Forest Restoration						
Restore Rocky Reef/Kelp Forest off of the Palos Verdes Shelf	TBF	Lead	Montrose Settlements Restoration Program, National Oceanic and Atmospheric Administration Restoration Center, Vantuna Research Group, California Sea Urchin Harvesters, Southern California Marine Institute, National Fish and Wildlife Foundation. California Department of Fish and Wildlife.	Restoration of 10 to 12 acres of kelp forest per year in 2017, 2018, and 2019. Increases in biomass, species richness and resilience are expected. Metric include biomass, richness and recovery from disturbance.	Approximately 150 acres were mapped in an urchin barren state. With the restoration of these 150 acres the SMBNEP will be roughly 50% of the way to its long term outcome of restoring the historical acreage of kelp off of the PV peninsula.	Montrose Settlements Restoration Program Funds to offset lost fishing opportunity funds committed: \$2,500,000 awarded through Sept 2017 \$450,000 awarded FY18 Annual Cost Average: \$400,000

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Abalone Restoration						
Maintain abalone laboratory	TBF	Lead	NOAA, NMFS, SCMI, NFWF, CADFW	Maintain and support abalone laboratory. Develop funding and support in FY18 to include space for white abalone	Increase laboratory capacity, culture dulse and other algae on site.	NOAA NMFS \$110,000 (Oct 1, 2016 – Sept 30, 2017) NFWF \$20,000 (Oct 1, 2016 – Sept 30, 2017)
Restore green abalone	TBF	Lead	NOAA, NMFS, SCMI, NFWF, CADFW	Quarterly laboratory spawning experiments; 6 Deck spawning attempts 2-3 larval outplanting trials quarterly monitoring of outplanting locations Through Sept 2017	Restore abalone to viable populations off Palos Verdes	NOAA NMFS Requested funds for FY18 \$130K-160K
Restore white abalone	TBF	Lead	NOAA, NMFS, ,SCMI, NFWF, Bodega Marine Lab, Southwest Fisheries Science Center, CADFW	8-12 captive red abalone spawning per year and outplanting experiments TBD	Red abalone are used as a proxy species for the endangered white abalone for restoration method development	
**NEW: Conduct abalone aquaculture resilience research	TBF	Participate	NOAA, NMFS, Cal Poly Pomona, SCMI	Develop spawning methods for green abalone to support commercial aquaculture operations in California		Cal Poly Pomona Agriculture Research Initiative \$121, 000 over 2 years

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Restore coastal bluffs, dunes, and sandy beaches						
Conduct monthly volunteer restoration events at LAX Dunes	TBF	Lead	LAWA, FOLD, SCC, LMU	Hold 21 community restoration events. Remove 630 bags of invasive non-native vegetation (estimated) Restore 21 acres of dunes	n/a	State Coastal Conservancy Explore the Coast Grant \$47,000
Conduct dune restoration partnership with LAWA (48-acre northern area)	SMBRA, TBF	Lead	LAWA, LMU, Conservation Corps, others TBD	Develop approved work plan for 3 years of ecological maintenance and monitoring within 48-acre site. Plant approximately 6 acres of native coastal dune and coastal prairie vegetation. Manage non-native invasive vegetation within 48-acre site.	n/a	LAWA* *pending MOU \$250,000

Coordinate Coastal Clean-up Day at LAX Dunes	TBF	Lead	LAWA, FOLD, Heal the Bay	Hold annual Coastal Clean-up Day at LAX Dunes	Hold annual Coastal Clean-up Day at LAX Dunes	State Coastal Conservancy Explore the Coast Grant, US EPA 320, Friends of LAX Dunes (FOLD)
Implement the Santa Monica beach restoration pilot project	TBF	Lead	City of Santa Monica, UCSB, State Parks	Annual post-restoration monitoring reports Installation of interpretive signage Ongoing maintenance, weed removal, and adaptive management	n/a	US EPA 320: estimated \$15,000 - \$20,000/ year for monitoring and maintenance Patagonia: \$4,000 City of Santa Monica: TBD – Signage \$5,000 - \$10,000
Facilitate standardized sandy beach monitoring	SMBRC, TBF	Facilitate	Pepperdine University, UC Santa Barbara, others	Opportunistically apply to grant funding sources Development of standardized sandy beach monitoring protocols	Development of standardized sandy beach monitoring protocols	US EPA 320
Conduct the “Healthy Beaches” project	TBF	Lead	LMU	Student contributed research projects, posters, and presentations Research and monitoring to inform current and future beach	n/a	US EPA 320, LMU

				restoration projects		
** NEW: Explore new beach restoration opportunities in the Bay	TBF	Lead	LMU, Bay Cities, all pertinent LA County departments, others	Develop grant proposals to secure future beach restoration funding	n/a	TBD